05-GF-113
(5740)

CITY OF STOUGHTON
MUNICIPAL UTILITIES
Serving Electric, Water & Wastewater Since 1886
600 South Fourth Street P.O. Box 383 Stoughton, WI 53589-0383
(608) 873-3379 Ext. 16
Visit us at www.stoughtonutilities.com

SEAN O. GRADY
Utilities Operations Superintendent
sogrady@stoughtonutilities.com

January 8, 2003

Mr. Scott Cullen, Chief Electric Engineer
Public Service Commission
610 N. Whitney Way
P.O. Box 7854
Madison, WI 53707-7854

RE: In the Matter of Filing Reporting Requirements for Appropriate Inspection and Maintenance, PSC Rule 113.0607(6)

Dear Mr. Cullen:

Enclosed for filing are 3 copies of City of Stoughton Municipal Utilities report to the commission, submitted every two years, showing compliance with its Preventative Maintenance Plan.

Very truly yours,
City of Stoughton Municipal Utilities

Sean O Grady
Utilities Operations Superintendent

Enclosures

RECEIVED
JAN
Electric Division

TWO YEAR REPORT DOCUMENTING COMPLIANCE WITH THE PREVENTATIVE MAINTENANCE PLAN

City of Stoughton Municipal Utilities

FILING DEADLINE
FEBRUARY 1, 2003

January 8, 2003

Craig A. Wood
600 S. 4th Street
Stoughton, WI 53589
873-3379

This report format was prepared by the MEUW work group for PSC Rule 113.0607 for use by the 82 municipal electric utilities in Wisconsin and endorsed by PSC staff as meeting the requirements of Rule PSC 113.0607.

I Reporting Requirements: PSC 113.0607(6) states;

Each utility shall provide a periodic report to the commission showing compliance with its Preventative Maintenance Plan. The report shall include a list of inspected circuits and facilities, the condition of facilities according to established rating criteria, schedules established and success at meeting the established schedules.

II Inspection Schedule and Methods:

SCHEDULE:	MONTHLY	ANNUAL	EVERY 5 YEARS
Transmission (≥69Kv)		X	X
Substations	X	X	
Distribution (OH & UG)			X

METHODS: Five criteria groups will be used to complete the inspection of all facilities.

1. IR – infrared thermography used to find poor electrical connections and/or oil flow problems in equipment.
2. RFI - Radio Frequency Interference, a byproduct of loose hardware and connections, is checked using an AM radio receiver.
3. SI – structural integrity of all supporting hardware including poles, cross arms, insulators, structures, bases, foundations, buildings, etc.
4. Clearance – refers to proper spacing of conductors from other objects, trees and conductors.
5. EC – equipment condition on non-structural components such as circuit breakers, transformers, regulators, reclosers, relays, batteries, capacitors, etc.

Distribution facilities will be inspected by substation circuits on a 5-year cycle such that the entire system will be inspected every 5 years. Inspector instructions for inspecting all facilities and forms are included in the plan.

III Condition Rating Criteria

This criterion, as listed below, establishes the condition of a facility and also determines the repair schedule to correct deficiencies.

0) Good condition
1) Good condition but aging
2) Non-critical maintenance required – normally repair within 12 months
3) Priority maintenance required – normally repair within 90 days
4) Urgent maintenance required – report immediately to the utility and repair normally within 1 week

IV Corrective Action Schedule

The rating criteria as listed above determine the corrective action schedule.

V Record Keeping

All inspection forms and records will be retained for a minimum of 10 years. The inspection form contains all of the required critical information i.e. inspection dates, condition rating, schedule for repair and date of repair completion.

VI Reporting Requirements

A report and summary of this plan's progress will be submitted every two years with the first report due to the Commission by February 1, 2003. The report will consist of a cover letter documenting the percent of inspections achieved compared to the schedule and the percent of maintenance achieved within the scheduled time allowance.

VII Inspected Circuits and Facilities

Circuit # and description	Substation
East Circuit, S.E. quadrant of the City	Central
West Circuit, N. central quadrant of the City.	Central
Rutland Circuit, S.W. quadrant of the Rural part of our distribution system.	South
Northwest circuit, N.W. quadrant of the Rural part of our distribution system.	North

Base load and peaking generation, less than 50 megawatts per unit in size, is typically subject to pre-operational checks, in addition to checks and maintenance during and after periods of operation. Emergency generation is test run and maintained every *(We don't own any emergency generation)*to confirm its operational readiness.

VIII Scheduling Goals Established and Success of Meeting the Criteria:

"It was this utility's goal to complete all monthly substation inspections, annual transmission line inspections and to inspect 20% of the distribution system. In addition, we expected to complete all scheduled maintenance resulting from the inspections within the prescribed time periods specified in the rating criteria.

All of the inspection goals were met or exceeded. 22% of the distribution system was inspected. 15 urgent maintenance items were found and repaired within 7 days. Of the 86 priority and non-critical maintenance items found, 36 were repaired on time. The remaining 50 are located on a section of the system that is being converted to a higher distribution voltage this summer and tree line clearance violations that will be completed this winter by an outside tree trimming contractor. The 50 year old Pleasant Hill Feeder will be rebuilt in the year 2003."

IX Facility condition – rating criteria:

"During the past two years, 38% of the distribution system was inspected and all substation inspections were completed on time. Of the items found requiring maintenance, all were repaired before they were responsible for an outage to customers. Storm related outages have been minimal and equipment failure only accounted for 17 outages affecting a minimal number of residential customers. Most of the system is less than 20 years old and is in excellent condition."